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**A47L 7/00, A61L 2/10**

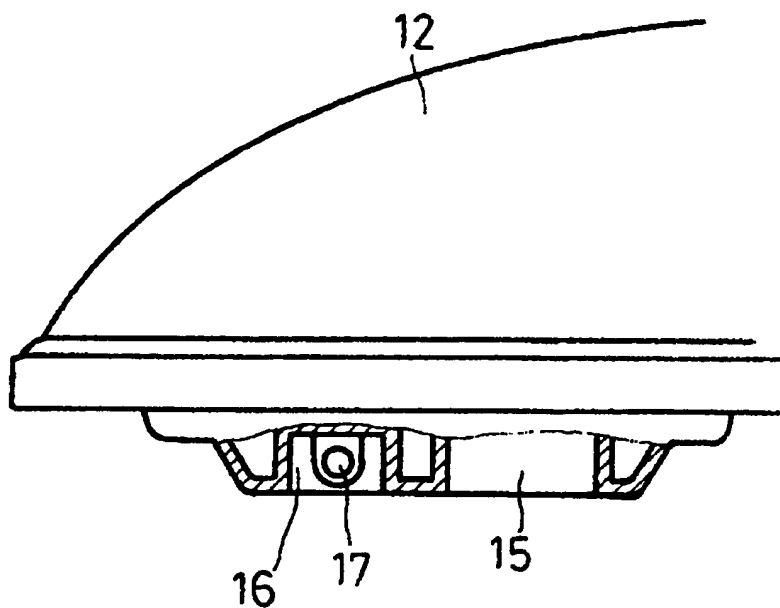
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**GB 2260693 A** **US 4907316 A**

(58) Field of Search  
UK CL (Edition L ) **A4F, A5G GAB GD**  
INT CL<sup>5</sup> **A47L 7/00 7/04 9/00 9/02, A61L 2/00 2/02**  
**2/10**  
**ONLINE DATABASE : WPI**

(54) **Vacuum cleaner with ultra-violet sterilizing bulb**

(57) A vacuum cleaner has an ultraviolet sterilizing bulb 17 mounted in a slot-shaped bulb socket 16 in front of a sucking inlet 15 under the bottom of the vacuum cleaner. The device may be used for sterilizing floors of medical areas simultaneously with cleaning.



**F I G . 3**

This print takes account of replacement documents submitted after the date of filing to enable the application to comply with the formal requirements of the Patents Rules 1990.

At least one of these pages has been prepared from an original which was unsuitable for direct photoreproduction.

**GB 2 277 251 A**

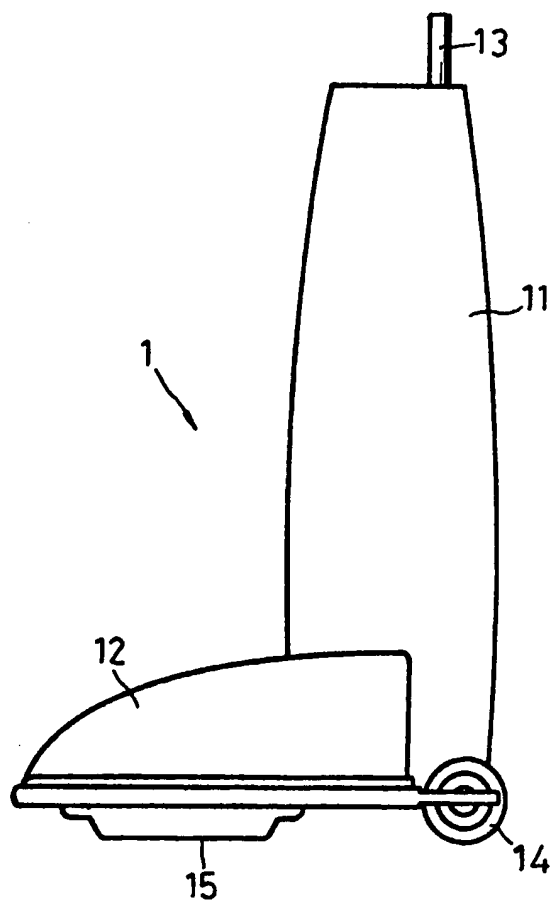


FIG. 1

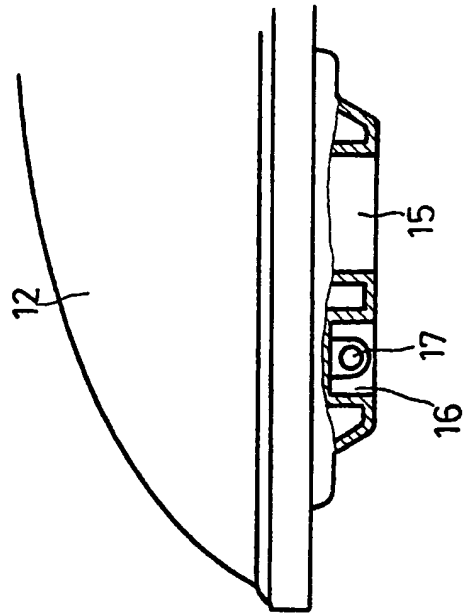


FIG. 3

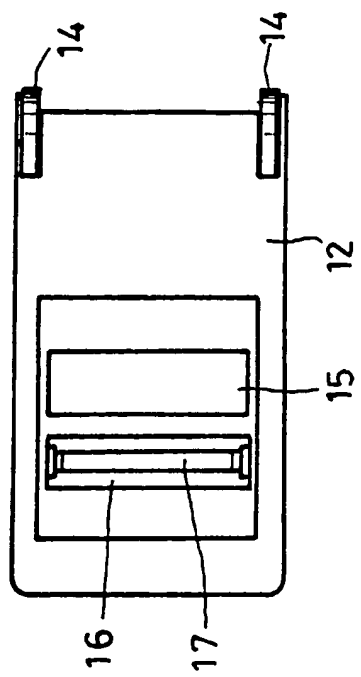


FIG. 2

A Vacuum Cleaner with Ultraviolet  
sterilizing Bulb

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This invention relates to a vacuum cleaner device which together with ultraviolet sterilizing bulb

5           In most of the medical rooms, a cleaning and sterilizing work is usually conducted periodically so as to minimize the transfer of viruses and the contagious diseases. The aforesaid work is usually done through two steps, i.e., the cleaning is done first and the ultraviolet sterilizing is  
10           done next on a floor surface so as to kill all the bacteria, microbes and viruses. Conventionally, the aforesaid two steps are usually done separately; therefore, a considerable time and manpower would cost aside from the inconveniences to conduct the practical work.

15           This invention relates to a vacuum cleaner with ultraviolet sterilizing bulb, which comprises a vertical part and a horizontal part. The bottom of the horizontal part has a sucking inlet to face a floor to be cleaned; in front of the sucking inlet, a slot-shaped bulb socket is furnished for  
20           mounting an ultraviolet sterilizing bulb. When vacuum cleaner is used for cleaning a floor, a sterilizing step to kill the bacteria, the microbes and the viruses will be conducted simultaneously, i.e., the conventional two steps being done simultaneously and simply.

25           An embodiment of this invention is described by way of example with reference to the drawings in which:

FIG. 1 is a side view of an embodiment according to the present invention.

FIG. 2 is a bottom view of the embodiment according to the present invention.

5        FIG. 3 is another side view of the present invention with an enlarged and sectional part thereof.

Referring to FIG.1, the present invention is a vertical type of vacuum cleaner 1 being similar to a conventional one, which comprises a vertical part 11, and a horizontal part 12; the aforesaid two parts 11 and 12 are  
10        pivotally connected together. The vertical part 11 can be set at a given slanting angle, and it has a handle 13 on the top thereof. The rear bottom of the vertical part 11 is mounted with casters 14; the bottom of the vertical part 11 also has  
15        a sucking inlet 15. The feature of the present invention is that the front of the sucking inlet 15 is furnished with a slot-shaped bulb socket 16 for mounting an ultraviolet sterilizing bulb 17 so as to enable the present invention to clean a floor surface and to sterilize the same  
20        simultaneously. The present invention can also be furnished with an alarm circuit to send out a signal in the event of the ultraviolet sterilizing bulb 17 being out of order.

**CLAIM:**

1. A vacuum cleaner with ultraviolet sterilizing bulb being a vertical type of vacuum cleaner and comprising a vertical part and a horizontal part; said vertical part being able to adjust at a given slanting angle; said vertical part having a handle on the top thereof and a sucking inlet on the bottom thereof; and in front of said sucking inlet, a long bulb socket being furnished for mounting an ultraviolet sterilizing bulb so as to have said vacuum cleaner able to sterilize a surface while cleaning the same.

**Patents Act 1977**  
**Examiner's report to the Comptroller under**  
**Section 17 (The Search Report)**

Application number

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**Relevant Technical fields**

- (i) UK Cl (Edition L) A4F; A5G:GAB,GD
- (ii) Int Cl (Edition 5) A47L: 7/00, 7/04, 9/00, 9/02  
A61L: 2/00, 2/02, 2/10

**Search Examiner**

A C HOWARD

**Databases (see over)**

- (i) UK Patent Office
- (ii) ONLINE DATABASE: WPI

**Date of Search**

19 MAY 1993

Documents considered relevant following a search in respect of claims 1

Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
X E	GB 2260693 A (EUROPEAN RESEARCH CORP) See page 5 lines 2-18	1
X	US 4907316 (KURZ) See column 3 lines 1-50	1

Category	Identity of document and relevant passages -5-	Relevant to claim(s)

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